



EXPLANATION

Qgd

Glacial deposits

(Filling preglacial valleys and rendering mapping of bedrock formations uncertain or impossible)

Csc

Sharon conglomerate

(Coarse yellow sandstone with much white quartz conglomerate at base)

Cm

Meadville shale

(Soft blue shale with numerous bands of thin blue or of calcareous concretions with many fossils)

Cs

Sharpville sandstone

(Flagstone, shale partings)

Co

Orangeville shale

(Homogeneous soft blue-black clay shale with a thin bedded layer of calcareous concretions with many fossils)

Cb

Berea sandstone

(Coarse white to yellow quartzose sandstone or grit)

Cbd

Bedford shale

(Soft blue or red clay shale with a few thin, irregularly bedded sandstone lenses, Cbe, near base)

Cc

Cleveland shale

(Black carbonaceous clay shale with many small concretions, underlain by Cleveland shale member, Cc, black clay shale on the horizon of the upper Chagrin but more like the Cleveland in character)

Cc

Chagrin shale

(Soft blue-gray to greenish clay shale with thin beds of blue and hard reddish concretions)

Cc

Solid boundaries represent observed contacts. Dashed boundaries represent approximate location of mapped contact beneath heavy covering of glacial debris.

Quarry

Base from U. S. G. S. maps of Euclid, Cleveland, and Berea quadrangles. Surveyed in 1901-2.

WILLIAMS & HEINTZ CO. WASHINGTON



INDEX OF QUADRANGLES

MAP OF THE EUCLID, CLEVELAND, AND BERE A QUADRANGLES, OHIO, SHOWING AREAL GEOLOGY

Scale 1:25,000

0 1 2 3 4 5 Miles
0 1 2 3 4 5 Kilometers

Contour interval 20 feet east of 81° 45' 10 feet west of 81° 45'.
Distances in miles and feet.

1901

Geology east of 81° 45' by H. P. Cushing, 1905-1907.
Geology west of 81° 45' by H. P. Cushing and C. R. Stauffer in 1907-1908.